

Conversations on the Edge

2010 Ranger Lecture Series

This series features specialists from Grand Canyon National Park's Division of Science and Resource Management speaking about the National Park Service's work to monitor, manage and preserve Grand Canyon's natural and cultural resources for present and future generations.

All Lectures Are Free and Open to the Public

Flagstaff lectures will be held at Cline Library, at the intersection of Knoles Drive and McCreary Road on the NAU campus. Parking is available to the west of the library (Lot P13 on Riordan Road).

Sponsorship

The Grand Canyon Association, Grand Canyon National Park, and Cline Library are proud to present the Grand Canyon Rangers: Conversations on the Edge Lecture Series in Flagstaff. The Conversations on the Edge Ranger Lecture Series is funded in part by a grant from the National Endowment for the Humanities.

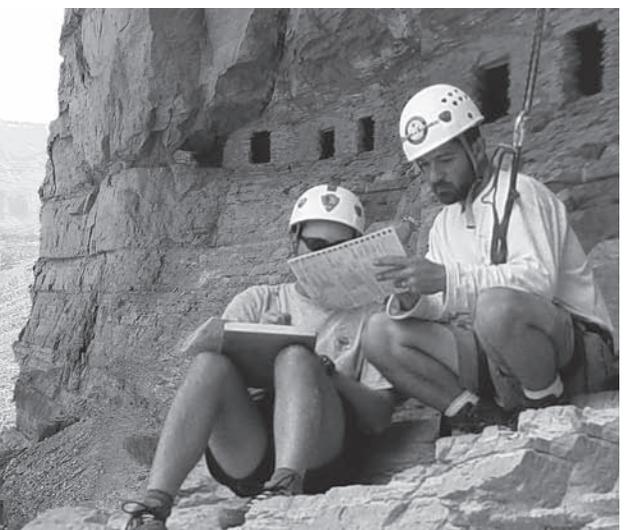


 **GRAND CANYON ASSOCIATION**
INSPIRE. EDUCATE. PROTECT.

 **GRAND CANYON ASSOCIATION**
INSPIRE. EDUCATE. PROTECT.
P.O. Box 399, Grand Canyon, Arizona 86023

Conversations on the Edge

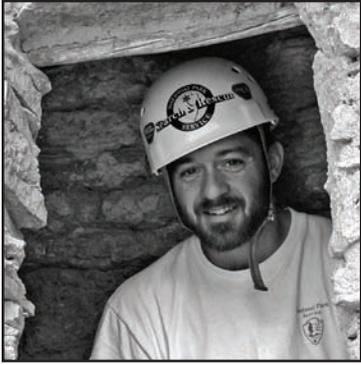
2010 Ranger Lecture Series





Conversations on the Edge

2010 Ranger Lecture Series



Extreme Cultural Landscapes: New Archeological Research in Grand Canyon National Park

Ian Hough, Vanishing Treasures Archeologist
 Wednesday, February 3, 7–8:30 p.m.

Recent research in archeology at Grand Canyon National Park is revealing interesting patterns of human use of the resources in this dynamic environment. Through the ages, people developed a wide range of social and cultural strategies at Grand Canyon, from small-scale foraging and hunting to socially complex farming. Ian Hough, who received his master of arts from Northern Arizona University in anthropology in 1999, will share some of the recent findings of archeological surveys, excavations and other research in the park.



Mapping the Green: Vegetation Mapping at Grand Canyon

Mike Kearsley, Vegetation Mapping Coordinator
 Wednesday, March 3, 7–8:30 p.m.

With the greatest plant species diversity of any national park, extremes in elevation and topography, diverse geologic substrates, and influences from surrounding biogeographic provinces, the vegetative communities of Grand Canyon are as unique as you will find anywhere in the world. Mike Kearsley, who earned a PhD in botany from Northern Arizona University in 1991, will give a brief history of vegetation mapping at Grand Canyon, describe the incredible diversity of plant communities found in the park and share some of the new insights into the canyon's plant communities gained via vegetation mapping.



Native Waters: Springs and Seeps of Grand Canyon National Park

Steve Rice, Hydrologist
 Wednesday, April 7, 7–8:30 p.m.

The springs and seeps of Grand Canyon are places of exceptional natural beauty that provide water and shelter in an otherwise arid environment. Springs also support diverse riparian vegetation and are often locations of substantial cultural significance. Hundreds of springs and seeps exist in the park, yet little is known about most of them. Park Hydrologist Steve Rice, who received his master of science in geology from Northern Arizona University in 2007, will provide an overview of the hydrologic system that supports the canyon's springs and seeps. He will also discuss activities and processes that threaten them, and the development of new protocols for baseline-data collection, interpretation and monitoring.



The Canyon's Lions: Mountain Lion Ecology Research in Grand Canyon National Park

Brandon Holton, Wildlife/Human Interactions Biologist
 Wednesday, May 5, 7–8:30 p.m.

Wildlife Biologist Brandon Holton, who received his master of science degree from Northern Arizona University in environmental sciences and policy in 2007, will discuss the mountain lion research program at Grand Canyon National Park. Holton will cover the history of mountain lion management at Grand Canyon and discuss the current distribution, demographics and predation behaviors of lions in the park. The park's research program incorporates the status and changing abundance and distribution of lion prey species, including elk, mule deer and desert bighorn sheep.

All Lectures Are Free and Open to the Public

Flagstaff lectures will be held at Cline Library, at the intersection of Knoles Drive and McCreary Road on the NAU campus. Parking is available to the west of the library (Lot P13 on Riordan Road).

Sponsorship

The Grand Canyon Association, Grand Canyon National Park and Cline Library are proud to present the *Grand Canyon Rangers: Conversations on the Edge* Lecture Series in Flagstaff.



GRAND CANYON ASSOCIATION
 INSPIRE. EDUCATE. PROTECT.



NORTHERN ARIZONA UNIVERSITY

The Grand Canyon Association (GCA) is a nonprofit educational organization established in 1932 to support the educational and research needs of Grand Canyon National Park. GCA educates people about the importance of Grand Canyon in order to cultivate stewardship of this world treasure and its resources. For more information, visit www.grandcanyon.org.

The mission of the Cline Library is to support the curricular, research, and community service goals of Northern Arizona University and its constituents. The library is home to a rich array of archival material that documents the history and development of the Colorado Plateau in a variety of disciplines. For online access, consult the Colorado Plateau Digital Archives at www.nau.edu/library/speccoll.